

CLAIMS

1. A recombinant polynucleotide encoding a polypeptide comprising the amino acid sequence

5 N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 10 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 15 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F F F L Y N N H N Y T D C T
 20 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 25 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or variants or fragments or derivatives or fusions thereof or fusions of said
 30 variants or fragments or derivatives.

2. A polynucleotide according to Claim 1, encoding a polypeptide
 comprising the amino acid sequence shown in Figure 2 labelled pMSF1 α
 between positions 19 and 660, or variants or fragments or fusions or
 35 derivatives thereof or fusions of said variants or fragments or derivatives.

3. A polynucleotide according to Claim 1 or 2, which contains no
 introns.

4. A polynucleotide according to any one of the preceding claims,
 comprising the polynucleotide whose sequence is shown in Figure 1.

5. A polynucleotide according to any one of the preceding claims, comprising the polynucleotide whose sequence is shown in Figure 1 between positions 57 and 1982.

6. A polynucleotide according to any one of the preceding claims, encoding a polypeptide which has migration stimulating factor activity.

7. A replicable vector comprising a polynucleotide as defined in any one of Claims 1 to 6.

8. A host cell comprising a recombinant polynucleotide or a replicable vector as defined in any one of Claims 1 to 7.

9. A method of making a polypeptide having the amino acid sequence

N L V A T C L P V R A S I P H R L N
 M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or variants or fragments or fusions or derivatives thereof, or fusions of said variants or fragments or derivatives, the method comprising culturing a host cell as defined in Claim 8 which expresses said variant or fragment

or derivative or fusion and isolating said polypeptide or variant or fragment or derivative or fusion from said host cell culture.

10. A polypeptide comprising the amino acid sequence

5 N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 10 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 15 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 20 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 25 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or variants or fragments or fusions or derivatives thereof or fusions of said
 30 variants or fragments or derivatives.

11. A polypeptide according to Claim 10, comprising the amino acid
 sequence shown in Figure 2 labelled pMSF1 α between positions 19 and
 660, or variants or fragments or fusions thereof or fusions of said variants
 35 or fragments.

12. A polypeptide obtainable by the method of Claim 9.

Sub
a2
40 13. A polypeptide according to any one of Claims 10 to 12, which has
 migration stimulating factor activity.

14. An antibody reactive towards the polypeptide whose amino acid sequence is

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N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

or natural variants thereof but not reactive towards fibronectin.

15. An antibody reactive towards the polypeptide whose amino acid sequence is shown in Figure 2 labelled pMSF1 α between positions 19 and 660 or natural variants thereof but not reactive towards fibronectin.

16. An antibody reactive towards an epitope present in the polypeptide whose amino acid sequence is

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N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R

C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 5 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or natural variants thereof but which epitope is not present in fibronectin.

10 17. An antibody reactive towards an epitope present in the polypeptide whose amino acid sequence is shown in Figure 2 labelled pMSF1 α between positions 19 and 660 or natural variants thereof but which epitope is not present in fibronectin.

15 18. An antibody according to any one of Claims 14 to 17, reactive towards a molecule comprising any one of the peptides ISKYILRWRPVSIPPRNLGY or QQWERTYLGNALVCTCYGGSR or EPCVLPFTYNDRTDSTTSNYEQDQ or CTDHTVLVQTRGGNS-
 20 NGALCH or VGNGRGEWTCIAYSQLRDQCI.

19. An antibody reactive towards fibronectin but not reactive towards the polypeptide whose amino acid sequence is

N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L A V Q C L G T A V P S T G A S K S K
 25 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 30 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 35 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 40 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 45 R P V S I P P R N L G Y

or natural variants thereof.

20. An antibody reactive towards fibronectin but not reactive towards the polypeptide whose amino acid sequence is shown in Figure 2 labelled pMSF1 α between positions 19 and 660 or natural variants thereof.

21. An antibody reactive towards an epitope present in fibronectin but not present in the polypeptide whose amino acid sequence is

10 N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
15 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
20 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
25 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
30 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

or natural variants thereof.

22. An antibody reactive towards an epitope present in fibronectin but not present in the polypeptide whose amino acid sequence is shown in Figure 2 labelled pMSF1 α between positions 19 and 660 or natural variants thereof.

23. An antibody according to any one of Claims 19 to 22 reactive towards a molecule comprising any one of the peptides

QQWERTYLGNVLVCTCYGGSR or EPCVLPFTYNGRTFYSCCTEG-
 RQDGLWCSTTSNYEQDQ or CTDHTVLVQTQGGNSNGALCH or
 VGNGRGEWTCYAYSQLRDQCI or ISKYILRWRPKNSVGRWKEA or
 peptides derived from position 648 in fibronectin as shown in Figure 2.

24. An antibody according to any one of Claims 14 to 24 which is a monoclonal antibody.

25. A method of making an antibody which is reactive towards the polypeptide whose amino acid sequence is

N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or a natural variant thereof and which is not reactive with fibronectin, the method comprising the steps of, where appropriate, immunising an animal with a peptide which distinguishes MSF from fibronectin and selecting an antibody which binds MSF but does not substantially bind fibronectin.

26. A method of making an antibody which is reactive towards fibronectin and which is not reactive towards the polypeptide whose amino acid sequence is

N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 5 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 10 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 15 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 20 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

25 or a natural variant thereof, the method comprising the steps of, where
 appropriate, immunising an animal with a peptide which distinguishes
 fibronectin from MSF and selecting an antibody which binds fibronectin
 but does not substantially bind MSF.

30 27. A molecule which is capable of, following immunisation of an
 animal if appropriate, giving rise to antibodies which are reactive towards
 the polypeptide whose sequence is

N L V A T C L P V R A S L P H R L N
 35 M L R G P G P G L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 40 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 45 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 50 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F

I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

or natural variants thereof but not reactive towards fibronectin.

5

28. A molecule which is capable of, following immunisation of an animal if appropriate, giving rise to antibodies which are reactive towards fibronectin but not reactive towards the polypeptide whose sequence is

10 N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
15 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
20 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
25 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
30 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

or natural variants thereof.

35 29. A molecule according to Claim 27 which is a peptide comprising any one of the sequences

ISKYILRWRPVSIPPRNLGY; or

QQWERTYLGNALVCTCYGGSR; or

PCVLPFTYNDRTDSTTSNYEQDQ; or

40 TDHTVLVQTRGGNSNGALCH; or

VGNGRGEWTCIAYSQLRDQCI

which are found in MSF.

30. A molecule according to Claim 28, which is a peptide comprising any one of the sequences

QQWERTYLGNVLVCTCYGGSR or

5 EPCVLPFTYNGRTFYSC TTEGRQDGHLWCSTTSNYEQDQ or

CTDHTVLVQTQGGNSNGALCH or

VGNGRGEWTCYAYSQLRDQCI or

ISKYILRWRPKNSVGRWKEA or

peptides derived from position 648 onwards in fibronectin as shown in

10 Figure 2.

31. A polynucleotide which is capable of distinguishing a polynucleotide which encodes the polypeptide whose sequence is

15 N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
20 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
25 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
30 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
35 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

or a natural variant thereof and a polynucleotide which encodes fibronectin.

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32. A polynucleotide which is capable of hybridising to a polynucleotide which encodes fibronectin but not a polynucleotide which encodes the polypeptide whose sequence is

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5  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
10  W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
   G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
15  E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
   Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
20  S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
   H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
   C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
   N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
   D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
25  Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
   I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
   R P V S I P P R N L G Y

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or a natural variant thereof.

33. A polynucleotide which is capable of hybridising to a polynucleotide which encodes the polypeptide whose sequence is

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35  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
40  W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
   G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
45  E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
   Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
50  S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
   H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
   C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
   N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
   D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
   Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
   I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
   R P V S I P P R N L G Y

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or a natural variant thereof but not to a polynucleotide which encodes fibronectin.

- 5 34. A polynucleotide according to any one of Claims 31 to 33, wherein the polynucleotide is an oligonucleotide.

35. A polynucleotide according to any one of Claims 31 to 34, wherein the polynucleotide which encodes fibronectin or the polynucleotide which encodes the polypeptide as said or a natural variant thereof is a mRNA or a cDNA.

36. A method of diagnosing cancer the method comprising detecting in a sample from the person to be diagnosed the presence of a polypeptide whose sequence is

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N L V A T C L P V R A S L P H R L N
M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
R P V S I P P R N L G Y

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- 40 or a natural variant or fragment thereof using a reagent which can distinguish said polypeptide from fibronectin.

37. A method of determining susceptibility to cancer the method comprising detecting in a sample derived from the person to be tested the presence of a polypeptide whose sequence is

```

5  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
10  W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
   G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T S C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
15  E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
   Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q R T R G G N S N G A L C H F P F L Y N N H N Y T D C T
20  S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
   H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
   C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
   N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
   D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
25  Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
   I T E T P S Q P I N S H P I Q W N A P Q P S H I S K Y I L R W
   R P V S I P P R N L G Y

```

or a natural variant or fragment thereof using a reagent which can distinguish said polypeptide from fibronectin.

38. A method of determining the likely outcome of a patient with cancer the method comprising detecting in a sample from the patient the presence of a polypeptide whose sequence is

```

35  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
40  W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
   G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T S C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
45  E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
   Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q R T R G G N S N G A L C H F P F L Y N N H N Y T D C T
50  S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
   H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R

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C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 5 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or a natural variant or fragment thereof using a reagent which can distinguish said polypeptide from fibronectin.

10

39. A method according to any one of Claims 36 to 38, wherein the reagent which can distinguish said polypeptide from fibronectin is an antibody according to any one of Claims 14 to 18.

40. A method of diagnosing cancer the method comprising detecting in a sample from the person to be diagnosed a polynucleotide encoding a polypeptide whose sequence is

N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
 20 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 25 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 30 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 35 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 40 R P V S I P P R N L G Y

or a natural variant thereof using a reagent which can distinguish said polynucleotide from a polynucleotide encoding fibronectin.

41. A method of determining susceptibility to cancer the method comprising detecting in a sample derived from the person to be tested the presence of a polynucleotide encoding a polypeptide whose sequence is

```

5  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
   W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
10  G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
   E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
15  Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
   S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
20  H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
   C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
   N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
   D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
   Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
25  I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
   R P V S I P P R N L G Y

```

or a natural variant thereof using a reagent which can distinguish said polynucleotide from a polynucleotide encoding fibronectin.

42. A method of determining the likely outcome of a patient with cancer the method comprising detecting in a sample from the patient the presence of a polynucleotide encoding a polypeptide whose sequence is

```

35  N L V A T C L P V R A S L P H R L N
   M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
   R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
   I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
   P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
   W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
40  G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
   P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
   V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
   R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
   E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
45  Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
   M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
   V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
   V L V Q T R G G N S N G A L C H F P F L Y N N H N Y T D C T
   S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
50  H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
   C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
   N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C

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D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

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or a natural variant thereof using a reagent which can distinguish said polynucleotide from a polynucleotide encoding fibronectin.

43. A method according to any one of Claims 40 to 42, wherein the reagent which can distinguish said polynucleotide from a polynucleotide encoding fibronectin is a polynucleotide according to Claim 31 or 33.

44. A method according to any one of Claims 36 to 43, wherein the cancer is breast cancer.

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45. Use of a reagent which can distinguish the polypeptide whose sequence is

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N L V A T C L P V R A S L P H R L N
 M L R G P G P G L L L L A V Q C L G T A V P S T G A S K S K
 R Q A Q Q M V Q P Q S P V A V S Q S K P G C Y D N G K H Y Q
 I N Q Q W E R T Y L G N A L V C T C Y G G S R G F N C E S K
 P E A E E T C F D K Y T G N T Y R V G D T Y E R P K D S M I
 W D C T C I G A G R G R I S C T I A N R C H E G G Q S Y K I
 G D T W R R P H E T G G Y M L E C V C L G N G K G E W T C K
 P I A E K C F D H A A G T S Y V V G E T W E K P Y Q G W M M
 V D C T C L G E G S G R I T C T S R N R C N D Q D T R T S Y
 R I G D T W S K K D N R G N L L Q C I C T G N G R G E W K C
 E R H T S V Q T T S S G S G P F T D V R A A V Y Q P Q P H P
 Q P P P Y G H C V T D S G V V Y S V G M Q W L K T Q G N K Q
 M L C T C L G N G V S C Q E T A V T Q T Y G G N S N G E P C
 V L P F T Y N D R T D S T T S N Y E Q D Q K Y S F C T D H T
 V L V Q R T R G G N S N G A L C H F P F L Y N N H N Y T D C T
 S E G R R D N M K W C G T T Q N Y D A D Q K F G F C P M A A
 H E E I C T T N E G V M Y R I G D Q W D K Q H D M G H M M R
 C T C V G N G R G E W T C I A Y S Q L R D Q C I V D D I T Y
 N V N D T F H K R H E E G H M L N C T C F G Q G R G R W K C
 D P V D Q C Q D S E T G T F Y Q I G D S W E K Y V H G V R Y
 Q C Y C Y G R G I G E W H C Q P L Q T Y P S S S G P V E V F
 I T E T P S Q P N S H P I Q W N A P Q P S H I S K Y I L R W
 R P V S I P P R N L G Y

or a natural variant thereof from fibronectin in the manufacture of a reagent for diagnosing cancer.

47. A method of modulating cell migration the method comprising administering an effective amount of a polypeptide according to any one of Claims 10 to 13 to the site where modulation of cell migration is required.

48. A method according to Claim 47, wherein the cell is a fibroblast or an endothelial cell.

49. A method according to Claim 47 or 48, wherein the site is in a mammalian body.

50. A method according to Claim 49, wherein the site is in a human body.

51. Use of a polypeptide according to any one of Claims 10 to 13, in the manufacture of an agent for modulating cell migration.

52. Use of a polypeptide according to any one of Claims 10 to 13, for modulating cell migration.

53. A method of healing a wound the method comprising administering to the locality of the wound an effective amount of a polypeptide according to any one of Claims 10 to 13.

54. Use of a polypeptide according to any one of Claims 10 to 13, in the manufacture of a medicament for healing wounds.

55. Use of a polypeptide according to any one of Claims 10 to 13, for healing wounds.

56. A pharmaceutical composition comprising a polypeptide according to any one of Claims 10 to 13 and a pharmaceutically acceptable carrier.

57. A polypeptide according to any one of Claims 10 to 13 for use in medicine.

58. A method of preventing scarring comprising administering to the locality of the site where scarring is to be prevented an effective amount of a polypeptide according to any one of Claims 10 to 13.